

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of )  
Vij, et al. ) For: METHOD AND APPARATUS FOR  
 ) SHARING USER INFORMATION  
 ) IN A GROUP COMMUNICATION  
 ) NETWORK  
Serial No. 10/756,163 )  
Filed: January 12, 2004 ) Group No. 2618

DECLARATION PURSUANT TO 37 C.F.R. §1.131

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The undersigned Inventors declare and state as follows:

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**CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8(a))**

I hereby certify that this correspondence is, on the date shown below, being:

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Depositor's Name: Tami M. Procopio  
(type or print name)

Date: February 11, 2007

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Trademark Office.

Depositor's Name: Tami M. Procopio  
(type or print name)

Signature: /Tami M. Procopio/

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1. We are the inventors of the above-captioned patent application, U.S. Application Serial No. 10/756,163, filed on January 12, 2004.

2. Prior to September 5, 2003, we, the inventors, had completed our invention in this country, as described and claimed in the subject patent application. This is evidenced by the following:

a. Prior to September 5, 2003, the invention was completed as claimed in the subject patent application and described using various terms, including a PTM or push-to-media designation for the invention as presented in Exhibit A, "Qualcomm Incorporated Invention Disclosure Form (IDF)." Please note that this exhibit indicates that the device was completed on 3/17/2003.

b. Prior to September 5, 2003, the invention was designed and tested as described and claimed in the subject patent application and as presented in Exhibit B "PTM Relay Code Folder", a screen shot of source code wherein the source code is maintained in a ptmrelay folder. The source code file folder indicates the last time that the source code was modified. Exhibit C, "File Header from RelayAgent.CPP" is presented to show a typical header of the source files in this folder.

We hereby acknowledge that all statements made of our own knowledge are true and that all statements made on information and belief are believed to be true; and further acknowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

FEB 07 /2007 \_\_\_\_\_  
Date Gajinder Singh Vij

\_\_\_\_\_  
Date Beth Ann Brewer

\_\_\_\_\_  
Date Douglas M. Crockett

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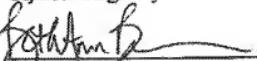
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Date

2/7/2007  
Date

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Gajinder Singh Vij

  
Beth Ann Brewer

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Date

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Douglas M. Crockett

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Date

Gajinder Singh Vij

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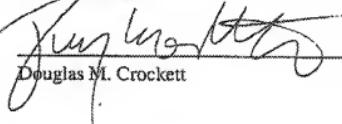
Date

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02/07/02

Beth Ann Brewer

Date

  
Douglas M. Crockett

**EXHIBIT B:**  
**PTM Relay Code Folder:**

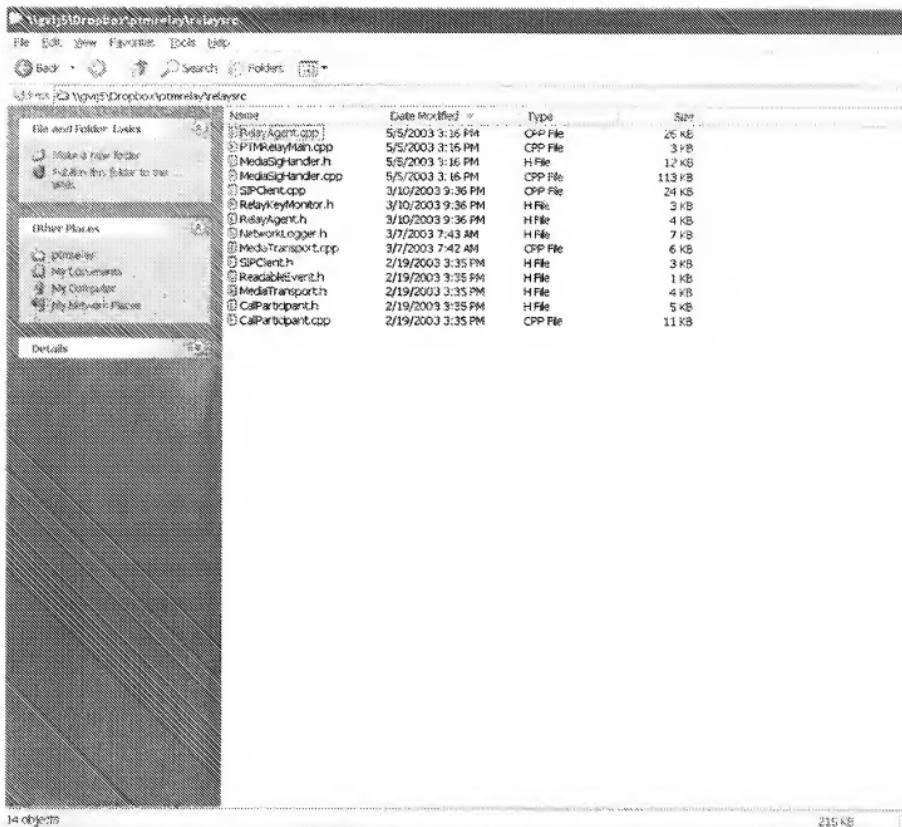


EXHIBIT C:

File Header from RelayAgent.CPP

/\*-----

FILE:

SERVICES:

GENERAL DESCRIPTION:

INITIALIZATION AND SEQUENCING REQUIREMENTS:

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=====\*/  
//-----  
// INCLUDES AND VARIABLE DEFINITIONS  
//-----

//-----  
// Include Files  
//-----

#include "RelayAgent.h"

# INTELLECTUAL PROPERTY GROUP

## Invention Disclosure Form



[IDF Home](#) | [IDF Form](#) | [Patents Home](#) | [Qualnet Home](#)

### EXHIBIT A

#### QUALCOMM INCORPORATED INVENTION DISCLOSURE FORM (IDF)

IDF # 030640

**Title:** User Initiated Presence Detection in a Wireless Network

**Keywords:** push-to-talk, push-to-video, push-to-media, PTT, PTV, PTM, Instant Multi-Media IMM, Voice-over-IP VOIP, Chat, QChat

**Description of the problem solved and the advantage(s) of the invention:**  
This invention is a novel approach to the problem of Presence Detection in a Wireless Network. Presence Detection is the process with which a user selectively informs one or more users, or members of a user defined group, or combination of the two, it comes comes 'Online', and is available for a PTT, IMM, or Chat session.

**Description of how others have solved the stated problem:**  
The conventional approach to presence detection requires a centralized server. The server notifies each user in a group when other members log in.

**Brief description of the invention:**  
The novel approach to Presence Detection is to have each user alert members of its group when it comes online. This eliminates the configuration problem associated with Server based solutions. Users configure their group lists. Users can also belong to multiple groups and switch between groups without requiring configuration changes at the server.

**Description of how the invention solves the stated problem and achieves the stated advantage(s):**  
Presence detection is achieved through point-to-point Alerts or Group Alerts (point-to-multipoint) on powerup (Hello) and shutdown (Bye). Additional Alerts can be sent periodically to detect if a User has gone down without sending a bye (to detect powerloss or loss of coverage) Here is an example of using User initiated point-to-point Alerts to maintain a list of "Online" users: On powerup, user A sends a "Hello" Alert to each member in its group (A, B, and C). If a point-to-point guaranteed delivery alert is used, user A receives an Ack if the message is delivered or a Nak if it isn't. If an Ack is received from User B and a Nak from User C, User A determines that User B is already online and User C is not. When User B (who is already online) receives a Hello Alert from User A, User B determines that User A has come online. When User A goes offline, User A sends a "Bye" message to all online users. When User B receives a "Bye" message from user A, User B determines that User A is no longer online.

Date simulation was completed on:

Date device was completed on: 3/17/2003

Date final simulation was completed:

Related invention disclosures, patent applications and patents:

Attachments included?: No

Developed or implemented while performing work under government or other contract?

Project Name: Instant Multi-Media

Project & Product Manager: Mick Barrett, Ellen Coppola

Account Charged: 71345

Primary Inventor: gvij  
Gajinder Singh Vij  
11736 Fantasia Ct.  
San Diego CA 92131  
Canada-CA  
2620

Add Additional Attachments